

Richmond Refinery LPS Positive – Risk Recognition – 4H2S Lean DEA Circulation Motor and Turbine Repairs



Location: HYDRO

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Tenets of Operations DISPLAYED

- 2. Always operate in a safe and controlled condition
- 8. Always address abnormal conditions
- 10. Always involve the right people in decisions that affect procedure and equipment

Situation:

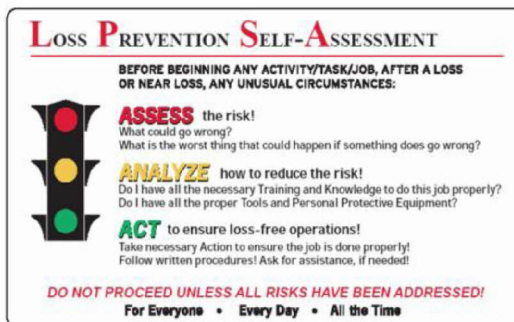
At Hydro, turbine TP-1025 was removed from service and was at the shop for a steam leak repair. While out for service, it was discovered that a bearing on the motor for MP-1025A was running hot (in use during turbine repair). Ops **assessed** the situation and recognized the risk. The situation was **analyzed** with RER's involvement. To reduce the risk, timely maintenance was done on the turbine to stop the leak prior to putting it back into service while a new motor was ordered for replacement. The **action** taken reduced our risk to the Hydro plants and minimized the time in which we were vulnerable from over 2 (+) weeks to just a few days. The motor has since been replaced and P-1025A is running well. The Hydro ABU is working through the Routine Work Control process to prioritize the TP-1025 turbine repair.

What worked well:

- Operations, Maintenance, and Reliability worked together to reduce to the risk and prevented a potential loss.
- Leveraged the Routine Maintenance Break-In process to appropriately mitigate operating risk for the NISO and RLOP plants.

Recommendations:

- Because we work in an every changing environment, we need to maintain a sense of vulnerability and be alert to potential changes in the environment, to the equipment and our work surroundings.
- Always involve the appropriate people and processes when making decisions that could impact and effect how we operate safely and reliably.



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